



Simple Machines

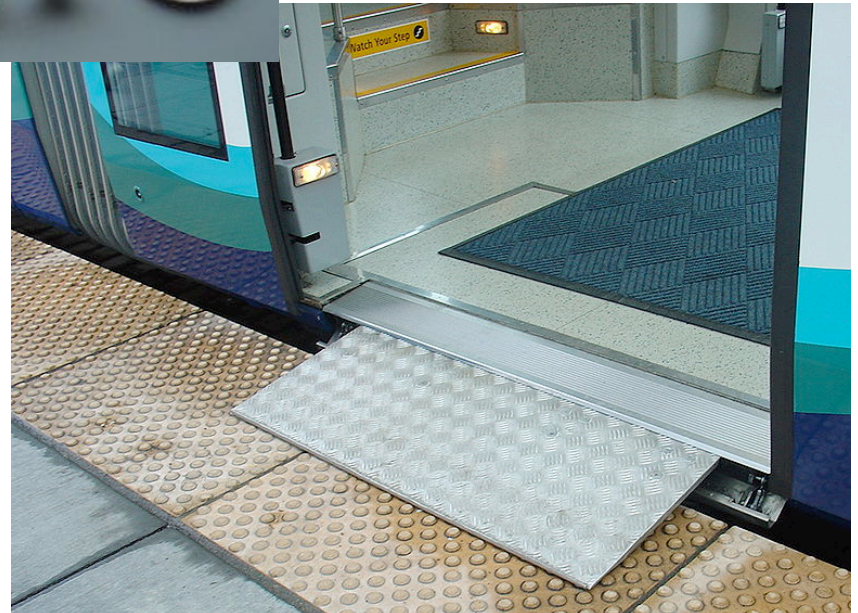


Photo: Pulleys on a ship. August, 1994. ©1994 by Leo-setä in en:wikipedia. Some rights reservedCC-BY-2.0 (www.creativecommons.org/licenses/by/2.0).

Photo: Photo: Various screws: differing sizes and colors, several Phillips, a flathead, and a Torx. Also included: wall anchor screws (one expanded), and a US quarter for scale. Released into public domain by Brianiac in en:wikipedia.

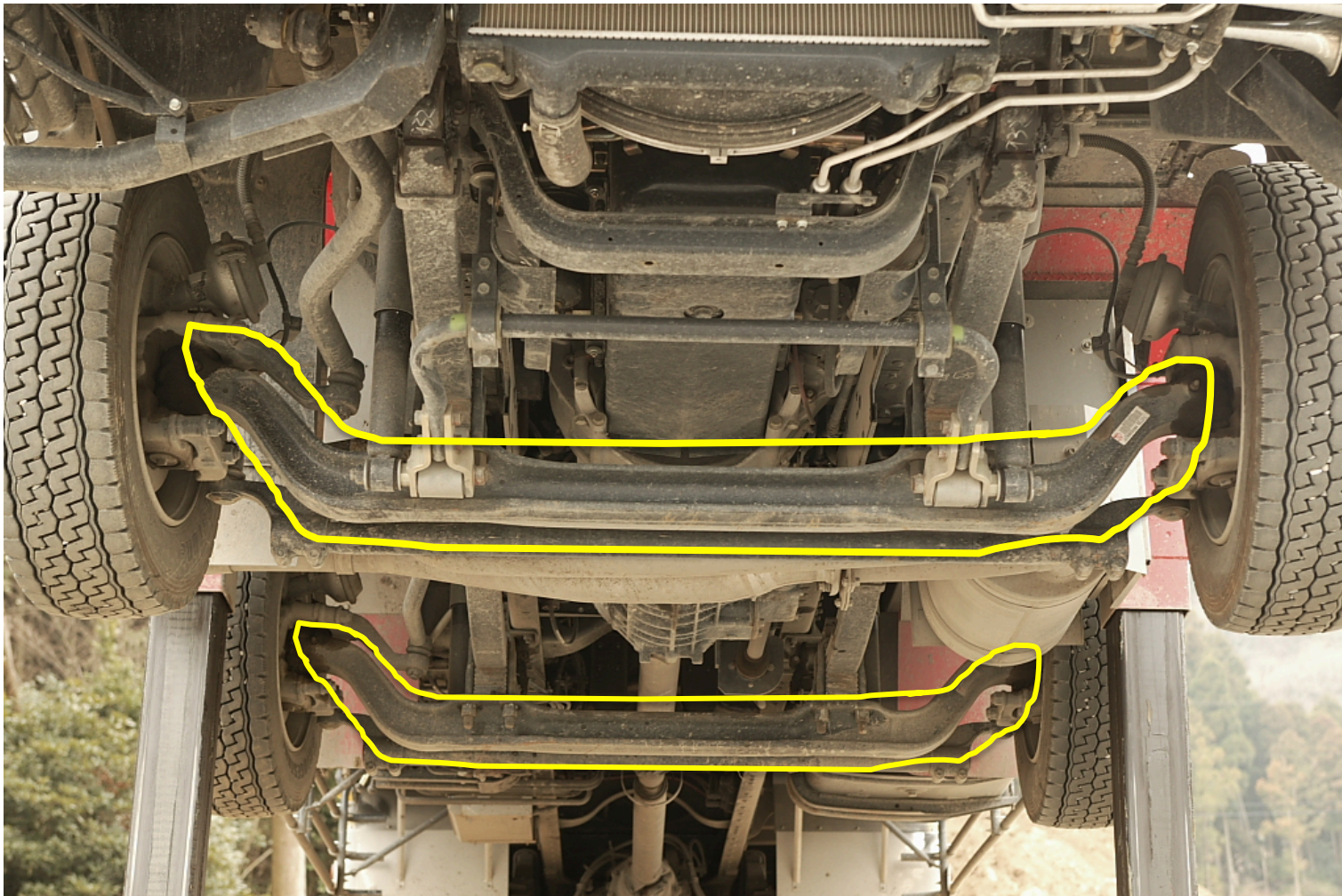
Photo: Wheelchair ramp in Tacoma, Washington, U.S. December 2004. ©2004 by Oran Viriyincy. Some rights reserved CC-BY-SA-2.0 (www.creativecommons.org/licenses/by-sa/2.0).

Corresponds to QuickReads Level C, book 3,
Physical Science, Simple Machines

Axle

The bar that connects two wheels on a vehicle.

Example: A car has two *axles*. One *axle* for the front wheels and another *axle* for its rear wheels.



Curved

A line or shape that bends like part of a circle.

Example: The race track is *curved* so that the drivers can go around the corners more easily.



Photo: Looking north at Aqueduct Racetrack. November, 2010. Released into public domain by Ajfidelity in en:wikipedia.

Fulcrum



Inclined



Photo: Dog on A-frame agility test. January, 2006. Released into public domain by Prskavka in en:wikimedia.

Lever

A long piece of metal, wood, etc. that you put under a heavy object in order to lift it.

Example: This man is using a crowbar as a *lever* to lift a piece of wood.

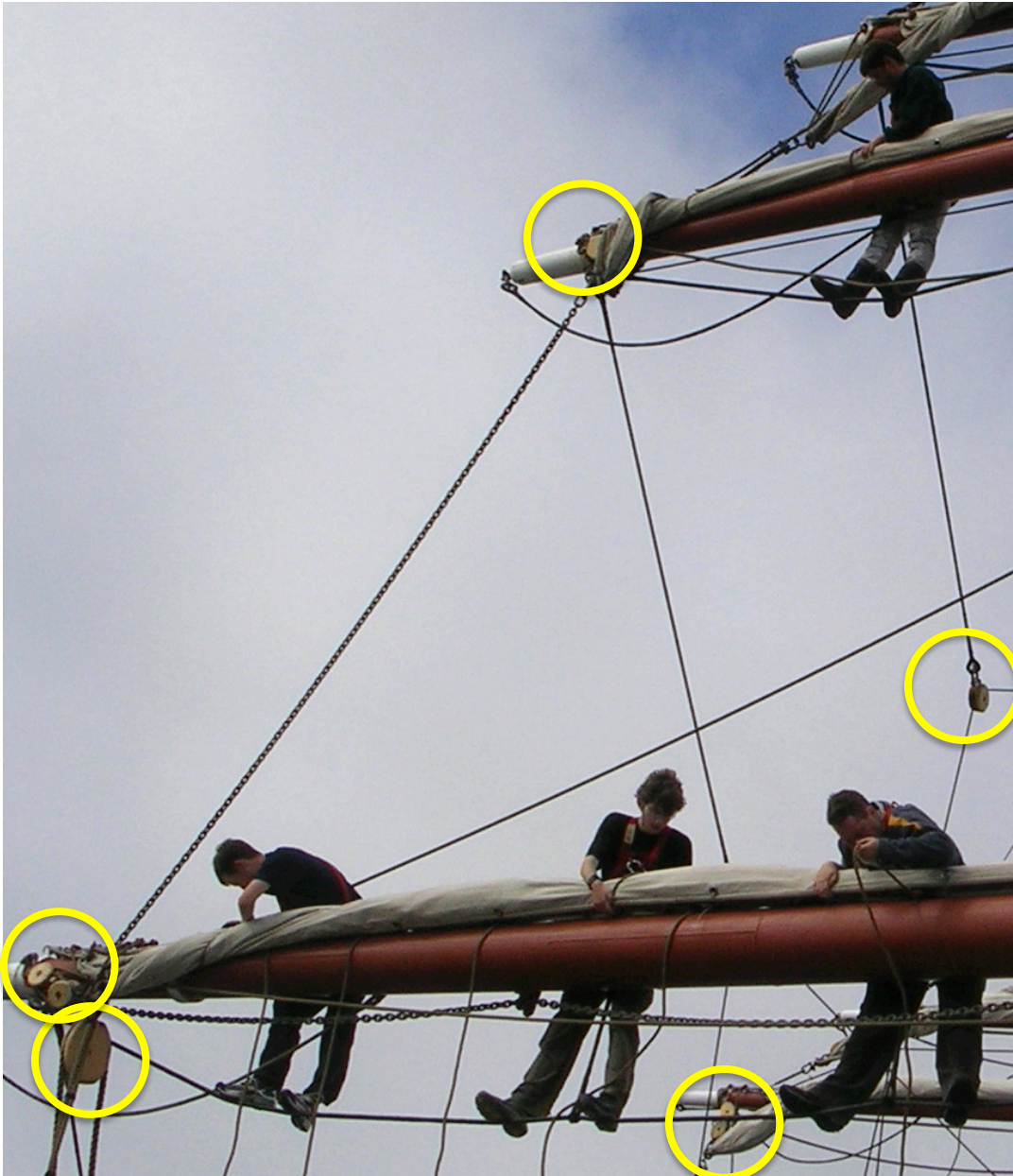


Photo: Man using crowbar to lift a board. November, 2007. Released into public domain by Pearson Scott Foresman.

Pulley

A piece of equipment used for lifting heavy things, consisting of a wheel over which you pull a chain or rope.

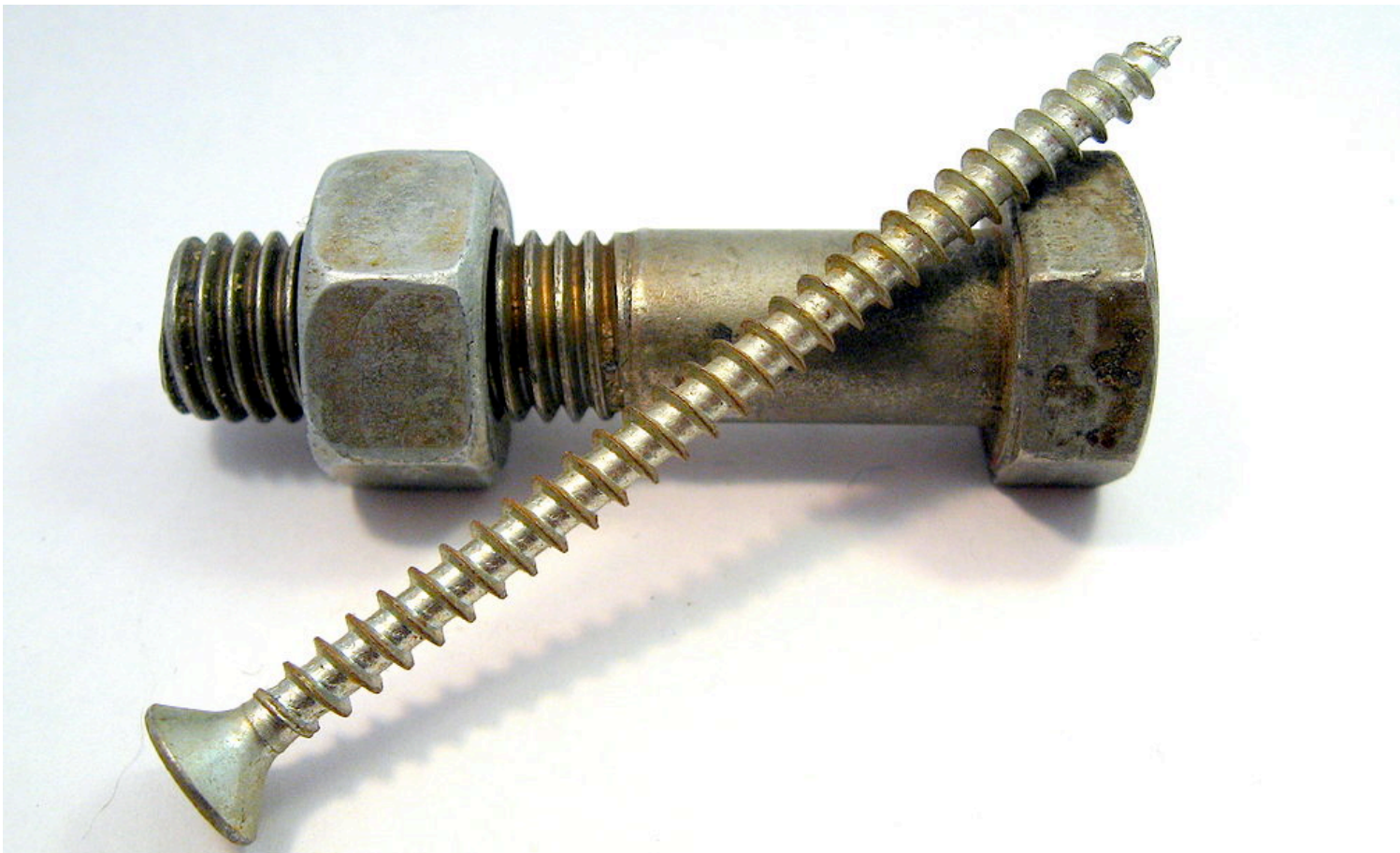
Example: *Pulleys* are used on sailing ships to raise and lower the sails.



Ridges

Something long and thin that is raised above the things around it.

Example: The *ridges* on the side of this screw and bolt is a ramp that goes round and round.



Screw





Slanted

To slope or to make something slope in a particular direction.

Example: The Leaning Tower of Pisa is *slanted* because the ground can't hold the weight of the tower.

Wagon



Wheel and axle



Wedge

A tool that has one thick edge and one thin edge, and is used to cut or slice, or open wider.

Example: The most common *wedge* that we use is the knife.



Ramps

A slope that has been built to connect two places that are at different levels

Example: *Ramps* are useful for moving things that cannot be tossed or lifted.



Photo: The U.S. Navy tank landing ship, USS Frederick (LST-1184) dropped its bow ramp, to take on U.S. Marines and equipment. November, 1996 Taken by Navy Photo by Photographer's Mated 3rd Class Laine Altshuler. Released into public domain by the United States Navy.